



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: )  
Timothy B. Hansen and James M. McNally )

Serial No.: 10/003,668 )

Filed: October 22, 2001 )

For: Irradiation Apparatus and Method )

Attorney Docket No.: HAN001 )

Examiner: Max Noori

Art Unit: 2881

Conf. No. 5329

September 17, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Amendment**

Dear Sir:

In response to the office action dated June 18, 2003, please amend the above-identified application as follows.

**Amendments to the Claims** are reflected in the listing of claims beginning on page 2 of this paper.

**Remarks** begin on page 8 of this paper.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 18<sup>th</sup> day of September, 2003.

By:

John J. Fry

#6/A

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10/4/03

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PTO/SB/21 (08-03)  
Approved for use through 08/30/2003. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/003.668	
	Filing Date	October 22, 2001	
	First Named Inventor	Hansen, Timothy B.	
	Art Unit	2881	
	Examiner Name	Noori, Max	
Total Number of Pages in This Submission	16	Attorney Docket Number	HAN001

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): PTO/SB/06 Fee Det. Record
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>		
Firm or Individual name	John J. Fry	
Signature		
Date	17 September 2003	

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CERTIFICATE OF TRANSMISSION/MAILING		
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Typed or printed name	John J. Fry	
Signature		Date 18 Sep 03

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OIPE JC-166  
 SEP 22 2003  
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PTO/SB/17 (08-03)  
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# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 351.00

## Complete if Known

Application Number 10/003,668  
 Filing Date October 22, 2001  
 First Named Inventor Hansen, Timothy B.  
 Examiner Name Noori, Max  
 Art Unit 2881  
 Attorney Docket No. HAN001

## METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number  
 Deposit Account Name

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)		
1001 750	2001 375	Utility filing fee	
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1) (\$)			

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims 38 - 20\*\* = 18 Extra Claims Fee from below 9 = 99  
 Independent Claims 10 - 1\*\* = 9 Fee Paid 42 = 252  
 Multiple Dependent 4  
 Fee Paid 351

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)		
1202 18	2202 9	Claims in excess of 20	
1201 84	2201 42	Independent claims in excess of 3	
1203 280	2203 140	Multiple dependent claim, if not paid	
1204 84	2204 42	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2) (\$)			351.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(e))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

## SUBMITTED BY

Name (Print/Type) John J. Fry  
 Signature

Registration No. 35,873  
 (Attorney/Agent)

(Complete if applicable)

Telephone 440.256.5710  
 Date 17 Sep 03

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875						Application or Docket Number	
<b>CLAIMS AS FILED – PART I</b>						<b>SMALL ENTITY</b> OR <b>OTHER THAN SMALL ENTITY</b>	
(Column 1)		(Column 2)		(Column 3)		(Column 4)	
FOR	NUMBER FILED	NUMBER EXTRA	RATE	FEE	RATE	FEE	OR
BASIC FEE (37 CFR 1.16(a))				\$		\$	OR
TOTAL CLAIMS (37 CFR 1.16(c))	27 minus 20 =	7	X \$	=	X \$	=	OR
INDEPENDENT CLAIMS (37 CFR 1.16(b))	4 minus 3 =	1	X \$	=	X \$	=	OR
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(d))			+	\$	+	\$	OR
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL		TOTAL		OR
<b>CLAIMS AS AMENDED – PART II</b>						<b>SMALL ENTITY</b> OR <b>OTHER THAN SMALL ENTITY</b>	
(Column 1)		(Column 2)		(Column 3)		(Column 4)	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE
Total (37 CFR 1.16(c))	38 Minus	27	= 11	X \$ 9	= 99	X \$	=
Independent (37 CFR 1.16(b))	10 Minus	4	= 6	X \$ 42	= 252	X \$	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))				+	\$	+	\$
				TOTAL ADD'L FEE	351.00	TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		(Column 4)	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE
Total (37 CFR 1.16(c))	* Minus	**	=	X \$	=	X \$	=
Independent (37 CFR 1.16(b))	* Minus	***	=	X \$	=	X \$	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))				+	\$	+	\$
				TOTAL ADD'L FEE		TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		(Column 4)	
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE
Total (37 CFR 1.16(c))	* Minus	**	=	X \$	=	X \$	=
Independent (37 CFR 1.16(b))	* Minus	***	=	X \$	=	X \$	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))				+	\$	+	\$
				TOTAL ADD'L FEE		TOTAL ADD'L FEE	

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.  
 \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".  
 \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".  
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.  
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